

Newsletter number #6

SMI CONFERENCE –FUTURE SURFACE WARSHIPS 2002

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Date 4 October 2002

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Keywords

Crisis, Surface Combatant, Warship, Naval Procurement, Requirements, Technology

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Summary

This report describes the SMi conference on Future Surface Warships, held 23-24 September 2002 in London UK. Proceedings are available from the SMI Group.

Background

The [SMi group](#) in London UK runs defense-related conferences every week throughout the year, on particular focus areas and with a wide international participation. This year's theme for the [Future Surface Warships Conference](#) was *Altered Peacetime And Crisis Response Strategies In The Wake Of The 11th September Terrorist Attacks*. Papers from the navies and defense companies of USA, UK, Denmark, France, Norway, Sweden and the Netherlands were presented, dealing with a range of programs and issues, including, weapons, ship programs, survivability, human factors and contracting.

Conference Agenda

SURFACE COMBATANTS FAMILY OF SHIPS STATUS REPORT

The former DD-21 program

RADM Charles S. Hamilton, Program Executive Officer, Surface Strike, **PEO(S)**, **NAVSEA**

THE TECHNOLOGICAL RESPONSE OF NAVIES TO CRISES

Implications for change

Larrie Ferreira, Associate Director for Naval Architecture, **U.S. Office of Naval Research**

NAVAL WARSHIP PRIME CONTRACTING

Ships are different

RADM J. A. Trewby, Naval Adviser, **BAE SYSTEMS**

TYPE 45 AND PAAMS – DELIVERING CAPABILITY TO THE RN

The Type 45 Program

Brigadier Keith Prentice / Captain Matt Robb, IPT45 / T45 ADCS, **Defence Procurement Agency**

Peter Czerniewski, Program Director, Combat Systems PCO, Type 45 Destroyer, **BAE Systems**

Steve Wadey, Project Director, UKAMS, **MBDA UK**

PLATFORM MANAGEMENT SYSTEM PROJECT

PMS for the TYPE 45

Patrick T. Enright Jr., Director Machinery Automation, **Sperry Marine**

THE CVF PROGRAM

One of the flagship programmes of SMART procurement

Ali Baghaei, CVF Integrated Project Team Leader, **DPA**

THE NEED TO REDUCE TOTAL OWNERSHIP COST WHILE INCREASING CAPABILITY

Keeping delays and costs under control

Tim Banfield, Director of Defence Procurement, **National Audit Office**

CURRENT AND FUTURE ISSUES IN NAVAL SHIP PROCUREMENT

General Procurement Issues

Professor David Andrews, Professor of Engineering Design, **University**

THE ROYAL NORWEGIAN NAVY'S \$1.4BILLION NEW FRIGATE PROGRAM

Opportunities and co-operation

RADM Jan Jaeger, Commander, **Royal Norwegian Defence Logistics Organisation/SEA, NDLO/SEA**

NAVAL REQUIREMENTS: THE DANISH PERSPECTIVE

Future Danish Naval Capabilities

Captain Poul Gross, RDN, Retiring Managing Director, **Naval Team Denmark**

Captain Arne Stihøj Pedersen, RDN, New Managing Director, **Naval Team Denmark**

OPTIMIZATION OF MANPOWER ABOARD U.S. SURFACE COMBATANTS

Trish Hamburger, Human Systems Program Manager, **PEO Theater Surface Combatants (TSC)**, **PEO Surface Strike/NAVSEA Dahlgren**

THE MODERN CONCEPT OF VERSATILE MISSILE LAUNCHERS FOR SURFACE SHIPS

Review of all modern launchers

Robin Kerr, Director, Naval Systems, **Lockheed Martin UK**

ELECTRIC POWER AND PROPULSION DERISKING

The Electric Ship Technology Demonstration Centre “ESTD”

Mark Paine, Project Director, **Alstom, Power Conversion**

TRIMARAN TECHNOLOGIES

The potential of trimaran hullforms in future naval ships

Robert Short, Trimaran Manager, **QinetiQ**

DESIGN OF NEXT GENERATION WARSHIP POWER AND AUTOMATION SYSTEMS

The challenges

Ed Zivi, Assistant Professor, **U.S. Naval Academy**

SURFACE SHIP SURVIVABILITY

Paul Horstmann, Senior Engineer, Survivability Group, **Centre for Marine Technology, QinetiQ Rosyth**

INTEGRATED TOPSIDE DESIGN

How to meet the challenges in future surface warship design?

Bas Dunnebie, Program Manager, **TNO Physics and Electronics Laboratory**

Discussion

Details of some of the papers are:

SURFACE COMBATANTS FAMILY OF SHIPS STATUS REPORT

The former DD-21 program

RADM Charles S. Hamilton, Program Executive Officer, Surface Strike, **PEO(S)**, **NAVSEA**

An overview of how the DD 21 program evolved into the DDX program, with focus on risk mitigation of technology to transform the surface fleet. Also provides a snapshot of current Littoral Combat Ship (LCS) program.

THE TECHNOLOGICAL RESPONSE OF NAVIES TO CRISES

Implications for change

September 11 in context: a shift or focus in priorities
Historical crises, social reaction and technological response by navies
Analysis of trends
Implications for navies of the 21st century

[The presentation is available in slide format](#)

NAVAL WARSHIP PRIME CONTRACTING

Ships are different
RADM J. A. Trewby, Naval Adviser, **BAE SYSTEM**

Outlines the difference between prime contracting for a warship and an airplane, from the point of view of an integrator (BAe) who does both. One critical observation is that "process" alone (i.e., ships are like any other large defense commodity) doesn't get you there -- you need a profound depth of skills to carry it out effectively.

NAVAL REQUIREMENTS: THE DANISH PERSPECTIVE

Future Danish Naval Capabilities
Captain Poul Gross , RDN, Retiring Managing Director, **Naval Team Denmark**
Captain Arne Stihøj Pedersen, RDN, New Managing Director, **Naval Team Denmark**

Outlines the concepts for a range of ship types to cover the spectrum of operations, from non-combat to combat roles, using common hulls and platform technology combined with modular and open mission systems.

THE MODERN CONCEPT OF VERSATILE MISSILE LAUNCHERS FOR SURFACE SHIPS

Review of all modern launchers
Robin Kerr, Director, Naval Systems, **Lockheed Martin UK**

A succinct but enlightening overview of all naval missile launchers available today, with a qualitative comparison of current and future capabilities.

TRIMARAN TECHNOLOGIES

The potential of trimaran hullforms in future naval ships
Robert Short, Trimaran Manager, **QinetiQ**

An overview of the trimaran research at QinetiQ (formerly the MoD research arm DERA), and a glimpse at how the program dynamics changed in the transition from the naval laboratory DERA to the private corporation QinetiQ.

Contacts

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